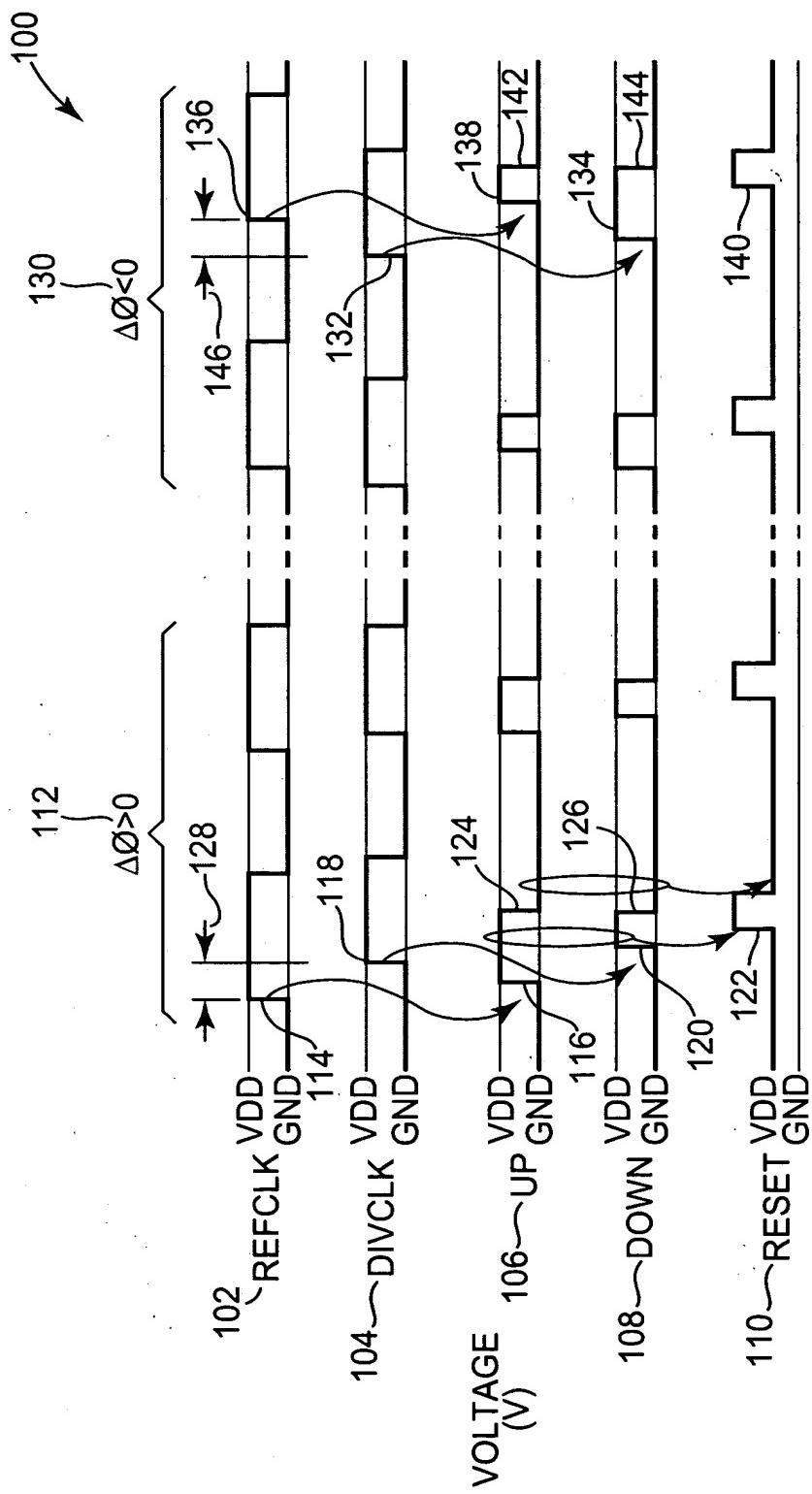
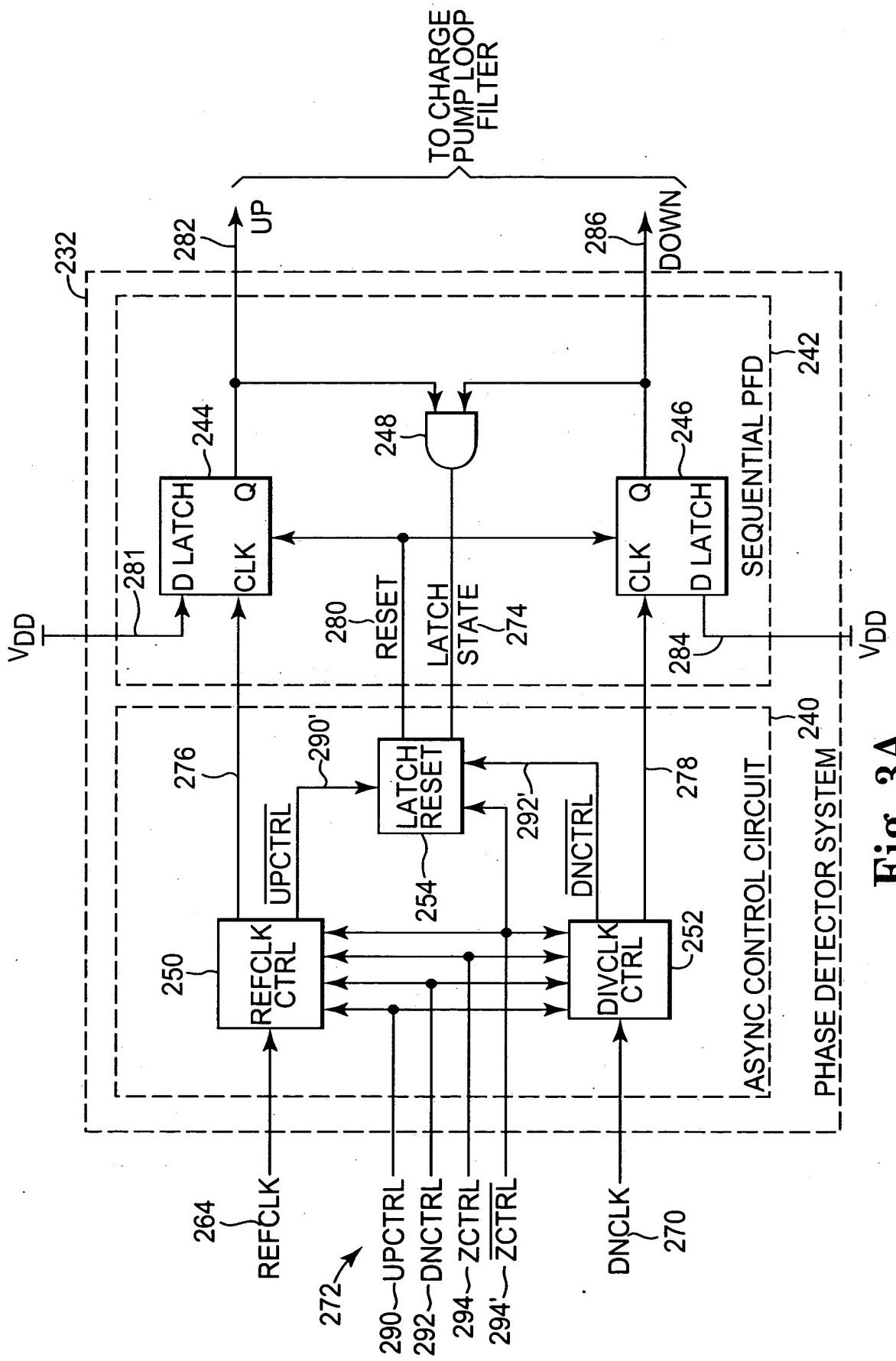


Fig. 1



**Fig. 2**  
 TIME(t)



**Fig. 3A**

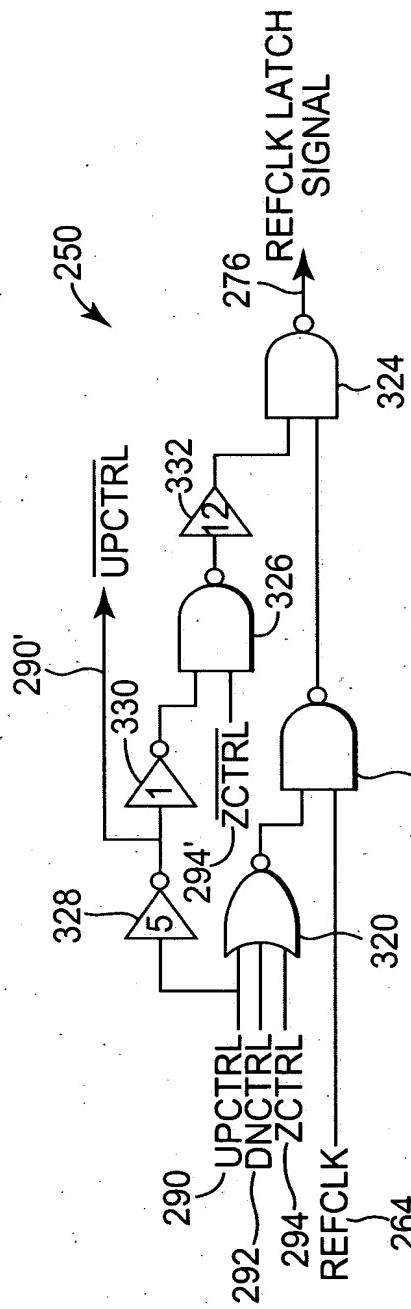
TRUTH TABLE

REFCLK 264	DIVCLK 270	ZCTRL 294	UPCTRL 290	DNCTRL 292	UP 282	DOWN 286
—	—	0	0	0	0	NORMAL OPERATION
DON'T CARE	DON'T CARE	1	DON'T CARE	DON'T CARE	0	0
DON'T CARE	DON'T CARE	0	1	0	1	0
DON'T CARE	DON'T CARE	0	0	1	0	1
DON'T CARE	DON'T CARE	0	1	0	1	1
DON'T CARE	DON'T CARE	0	1	1	1	1

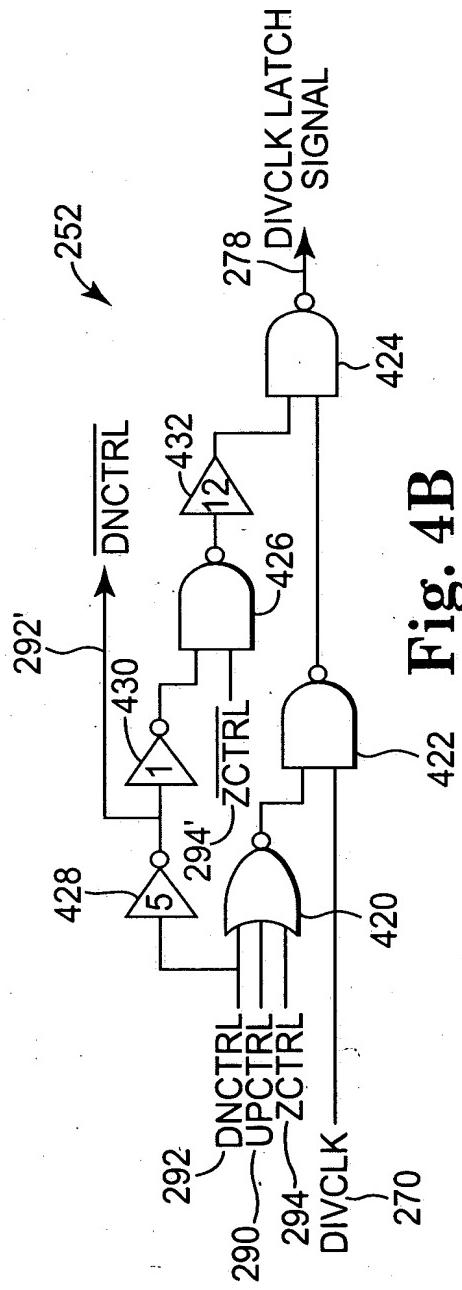
300



**Fig. 3B**



**Fig. 4A**



**Fig. 4B**

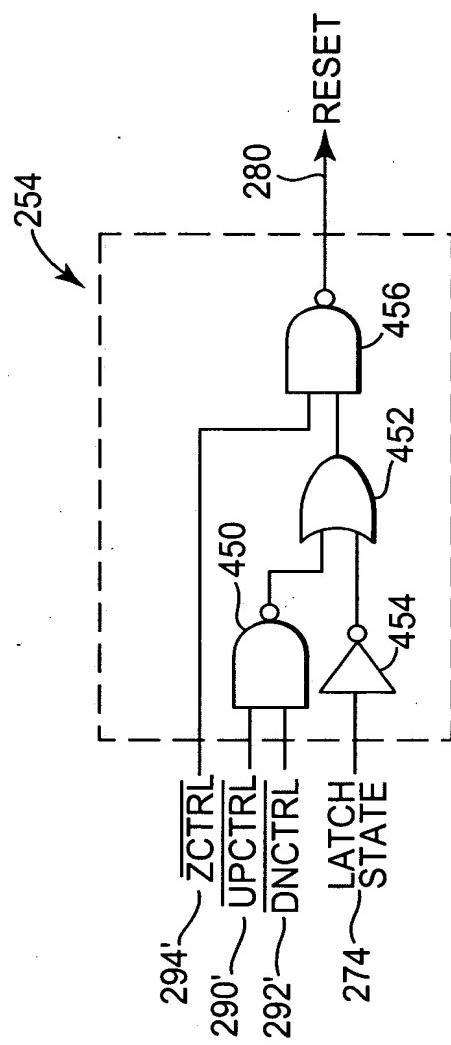


Fig. 4C